

Pawan Sarathe
Senior Engineer TATA MOTORS LTD

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OBJECTIVE

Aspire to acquire a better job position as an automotive test engineer in a well-reputed and qualified organization that can skilfully utilize my testing abilities to the fullest. Wish to be an important part of the very growing organization.

PROFILE SUMMARY

- More than six years of professional experience in **developing** and **testing** to **validate vehicle performance**.
- Proficient in **validation** of **mechanical testing** for various **Commercial vehicles** like Tractor trailer Trucks and Tipper and **Construction machines** like **TLB, Vibratory Compactors and Excavator**.
- Familiar with **installation** of **instruments, programming of data loggers and diagnostic tool** which is used in **vehicle** and **component testing**.
- Ability of **dynamics trials, handling trials and endurance testing** of test vehicle as per the ISO standard.
- Experience in **RLDA testing** and **NVH testing** including vehicle level and component level.
- Knowledge of **acceleration test, gradability test** and **performance test** of commercial vehicle.
- Provided technical support for **test coordination, test failures, and test reports**.
- Experience of maintenance of commercial vehicle and construction equipment.
- Ability to handling **shop floor** activity, **proto shop** activity and **proto assembly** line for NPD.

WORK EXPERIENCE

Senior Test Engineer

TATA Motors Limited Jamshedpur Jharkhand India

May 2019 - Present

- Conducting **vehicle tests** as per engineering specifications, **including sensor installation, part installation, data mode setup** and **data acquisition**.
- Planning and execution of vehicle tests to optimize transmission control systems and engine **calibrations** in Proving Ground and other field environments.
- Perform **cooling tests, brake tests, steering tests, and performance** tests in **BS IV** and **BS VI** vehicle including benchmarking vehicles.
- Execute **stress strain** and **vibration tests** for finding vehicle and component **life cycle**.
- Effective functioning of **instrumentation and diagnostic tool** on **NATRAX** for **handling trials** of **commercial vehicle**.
- Coordinating with the team at test agencies for scheduling and execution of test.
- New product development testing coordination at **ARAI** for **homologation**.
- Understand **vehicle diagnostic tool, vehicle CAN data** and **ECU flashing** for data acquisition.
- Investigating problems experienced during testing and providing recommendations on alternate **testing procedures** or **methods**.
- Ability of vehicle calibration for **drivability** and **FE (Fuel Economy) optimization**.
- Responsible for **calibration of instruments** and their **maintenance** as per the ISO standards.
- Contact external agencies for **calibration of instruments** and **quotation** of new capex item.
- Ability to handle field related issue and maintenance of commercial vehicle.

- Excellent hands-on knowledge of mechanical and electrical systems.
- Basic understanding of INCA, VISU and TDS (TATA Diagnostic system) diagnostic tools.
- Handling 2 JE and 4 operators teams for instruments installation and test execution on test field.

Vehicle Testing Engineer

Case New Holland Construction Equipment (India) Pvt Ltd, Madhya Pradesh, India

April 2018 – May 2019

- Conducting **mechanical tests** on **benchmarked vehicles** and **analysing data** for the same.
- Effective Functioning on **test method** preparation as per Organization test procedures and ISO, CNH Standards for ensuring the functional reliability and quality of a vehicle.
- Testing **component performance, stress, strain** and **vibration** as well as system and actuation development.
- Responsible for troubleshooting vehicle level components during **endurance trial failures** and monitoring their **life structure**.
- Good operational understanding of **diagnostic tool, vehicle CAN data and vehicle bus protocol**.
- Interacting with **service support** team on regular basis and providing them work direction on attending **field related issue (After Sales)**.
- Providing regular weekly update on **Test results, Validation Progress, Failure** and **issues related** discussion.
- Execute **fuel consumption test** on construction equipment and find **productivity of vehicle**.
- Knowledge of **Smoke tests, cold start tests** and **data flashing** for new engine development.
- Responsible for **proto shop activity** like **man power handling** and smooth functioning of **proto assembly** line for new product development.
- Involve with **ARAI and ICAT** team for executing vehicle testing as per the ISO standard.
- Resolve **hydraulic hardware** and/or **software problems** and provide technical/troubleshooting support.

Service Engineer Mechanical

Manish Shah & Associates Indore, Madhya Pradesh, India

Aug 2011 – June 2014

- Work with team member to create continuous improvement of **product** and **service**.
- Develop, maintain and **improve relationships** with the **customer** by providing expert advice and acting as a specialist resource.
- Feedback and work closely with service manager and site managers to achieve best optimization for productivity & life span.
- Perform other tasks from Manager on the qualification development.
- Continually develops effective troubleshooting methods in providing daily remote assistance to customers and associate.
- Provided clear feedback to **management** for capturing improvement opportunities.
- Assist in the **development** and **improvement** of **service processes** and information.

DATA LOGGER KNOWLEDGE

- E-Daq Data Logger of Somat, neoIV, HBM Data Logger, V BOX Data Logger (3i, SX and Mini) and Modules, IPEtronic Data Logger, Interpid data logger, DAS (Data Acquisition System), IMC

INSTRUMENT KNOWLEDGE

- Fuel Flow Meter, MSW Sensor, Accelerometer, Strain Gauge, String Potentiometer & LVDT, Hydraulic Flow Meter, Load Cell, thermocouple, pressure sensor, Pedal Force, S350 and L400 (Light Sensor)

SOFTWARE PROFICIENCY

- WinUDS, TCE Somat, Infield, n Code, vehicle spy, SAP.
- Knowledge MS Office, Excel, Power Point
- PRO-E, Creo

EDUCATION DETAILS

M Tech in Machine design and robotics | RGPV Bhopal | **7.2 CGPA**

2014-2017

BE in Mechanical Engineering | RGPV Bhopal | **68 %**

2007-2011

Higher Secondary School Certificate Exam | MP Board | **63 %**

2006-2007

High School Certificate Exam | MP Board | **68 %**

2004-2005